

Cercle de correlations

coloration par CSP

200

100

200

100

0

-100

-200

-1000

plan principal 2

CA5

#cf Mise à nive stat et R

(7) PLANS FACTORIELS INDIVIDUS

#la fonction s.class ne donne pas les labels individus

xlab = "Axe principal 1", ylab="plan principal 2")

s.class(acp\$li, fac=CSP, cstar=0, cpoint = 0, clabel = 1.4,

col=colCSP, axesell = T, add.plot = T)

#plan principal avec CSP en facteur supp

plot(acp\$li\$Axis1, acp\$li\$Axis2, type="n",

text(acp\$li\$Axis1, acp\$li\$Axis2, row.names(Men),

abline(h=0); abline(v=0) #barycentre du nuage

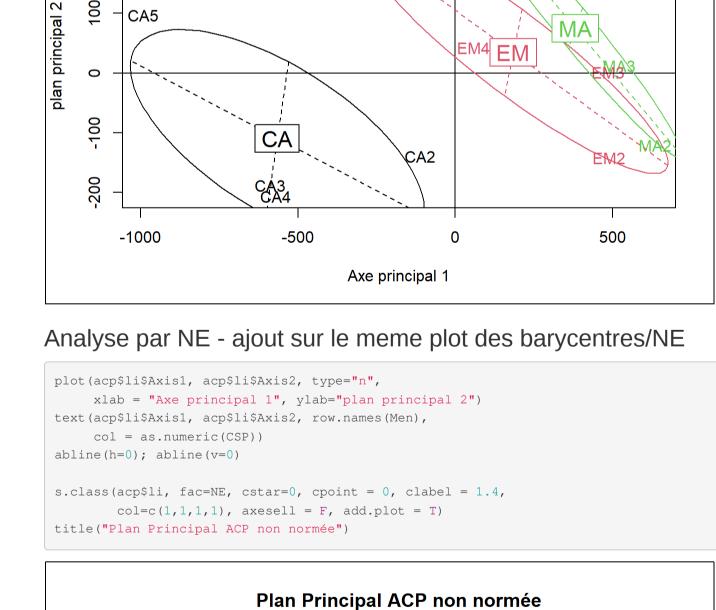
labels individus colores par CSP

barycentres/classes avec s.class

col = as.numeric(CSP))

barycentres/ classes avec s.class colCSP <- seq(1, length(levels(CSP)))</pre>

title("Plan Principal ACP non normée")



4

GA2

Axe principal 1

Axis1 Axis1:2 Axis1:3 Axis1:4 Axis1:5 Axis1:6 Axis1:7

-500

MA2 95.282867 98.73557 98.84116 99.96520 99.98650 99.98790 ## EM2 85.588852 92.85269 99.13552 99.57263 99.92925 99.98592 ## CA2 25.890417 66.17686 74.07089 78.09860 98.89156 99.99339

MA3 99.732090 99.78568 99.78867 99.85793 99.86250 99.89662 ## EM3 97.810617 97.81118 99.60188 99.65674 99.96282 99.97300 ## CA3 88.884839 98.00892 99.33531 99.54489 99.58277 99.99630

col=colNE, axesell = F, add.plot = T)

title("Plan Principal + NE avec label prop. aux cos2")

ACP non Normee

2 3 4 5 6 7

EM MA

500

abline (h=0); abline (v=0)

plan principal 2

200

-1000

-500

(8) Usage des cos^2 et representation

inertie\$row.cum #cos2 cumules (%)

3

500

100

ACP NON NOMEMEE: cercle 1-2

Viande Volaille

Plan Principal + CSP avec label prop. aux c Plan Principal + NE avec label prop. aux co

plan principal 2

0

-200

-1000

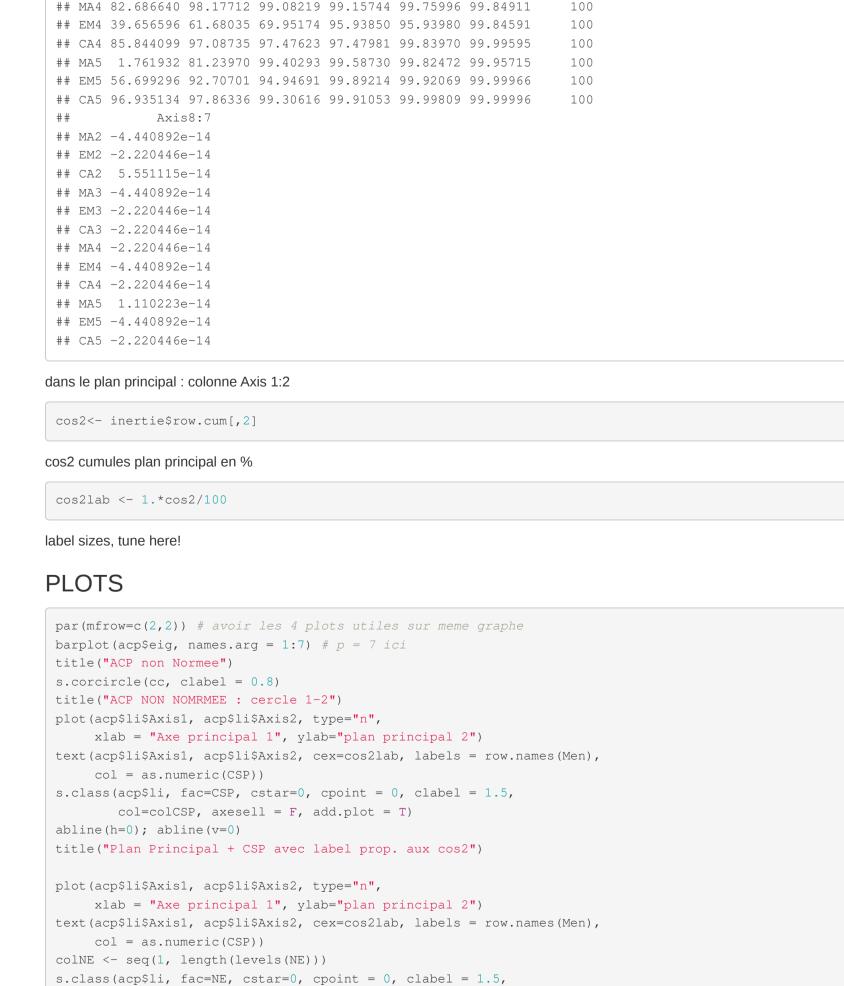
-500

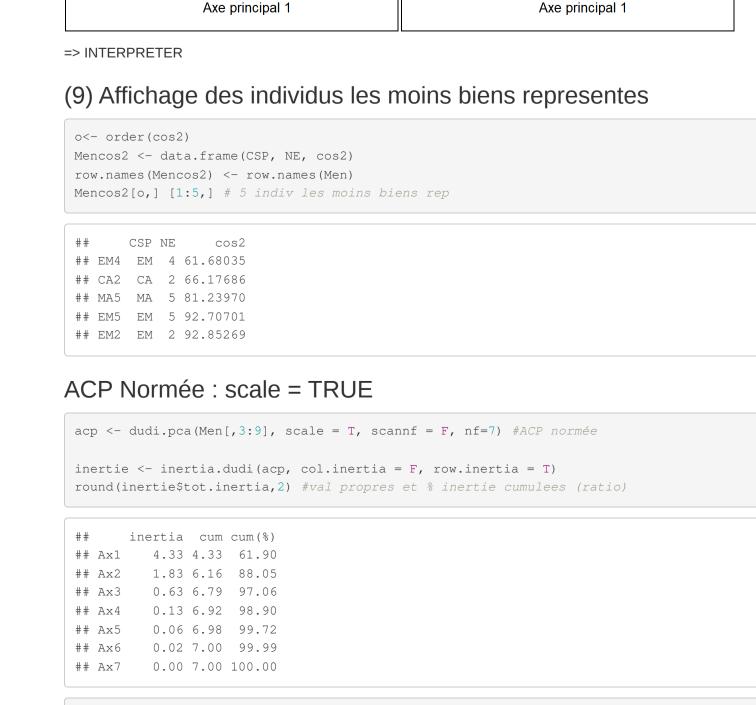
Vin

500

Plan Principal ACP non normée

EM4 EM





text(acp\$li\$Axis1, acp\$li\$Axis2, row.names(Men),
<pre>col = as.numeric(CSP))</pre>
abline(h=0); abline(v=0)
barycentres/ classes avec s.class
<pre>colCSP <- seq(1, length(levels(CSP)))</pre>
s.class(acp\$li, fac=CSP, cstar=0, cpoint = 0, clabel = 1.4,
<pre>col=colCSP, axesell = T, add.plot = T)</pre>
#analyse par NE - ajout sur le memem plot des barycentres/NE

text(acp\$1i\$Axis1, acp\$1i\$Axis2, cex=cos2lab, labels = row.names(Men),

par(mfrow=c(2,2)) # avoir les 4 plots utiles sur meme graphe

scatterutil.eigen(acp\$eig, nf=3, box=T, sub = "ACP Normee")

xlab = "Axe principal 1", ylab="plan principal 2")

xlab = "Axe principal 1", ylab="plan principal 2")

s.class(acp\$li, fac=NE, cstar=0, cpoint = 0, clabel = 1.5,

col=colNE, axesell = F, add.plot = T)

#(6) cercles de corelations direct dans ce cas(ade4)

eigen bargraph Eboulis des Val P

#plan principal avec CSP en facteur supp plot(acp\$li\$Axis1, acp\$li\$Axis2, type="n",

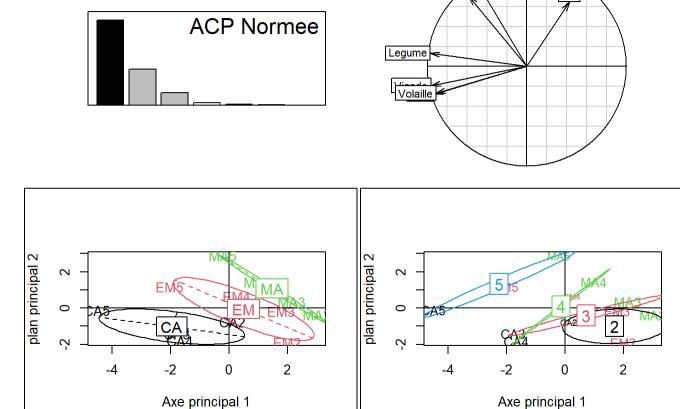
colNE <- seq(1, length(levels(NE)))</pre>

col = as.numeric(CSP))

abline (h=0); abline (v=0)

plot(acp\$li\$Axis1, acp\$li\$Axis2, type="n",

s.corcircle(acp\$co) title("ACP NOMRMEE")



PairACP NOMRMEE